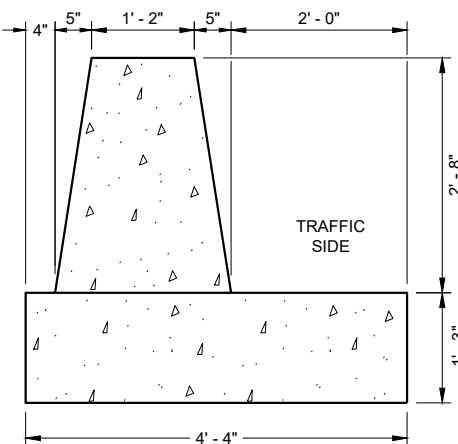
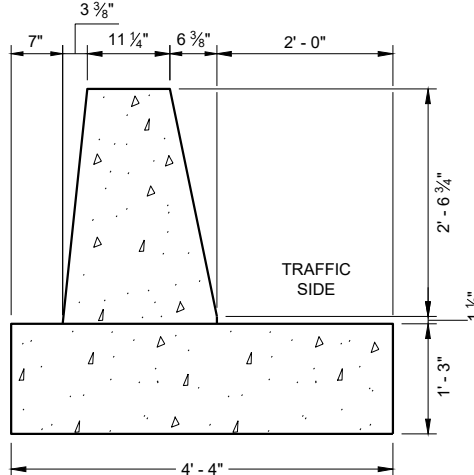
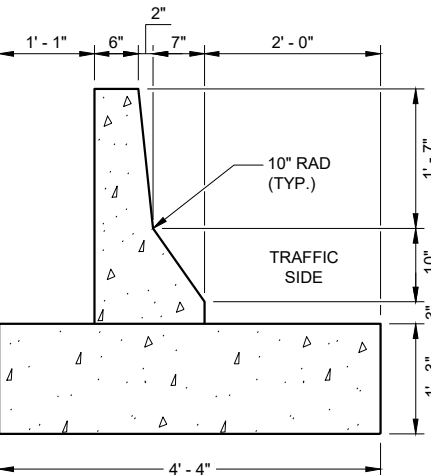
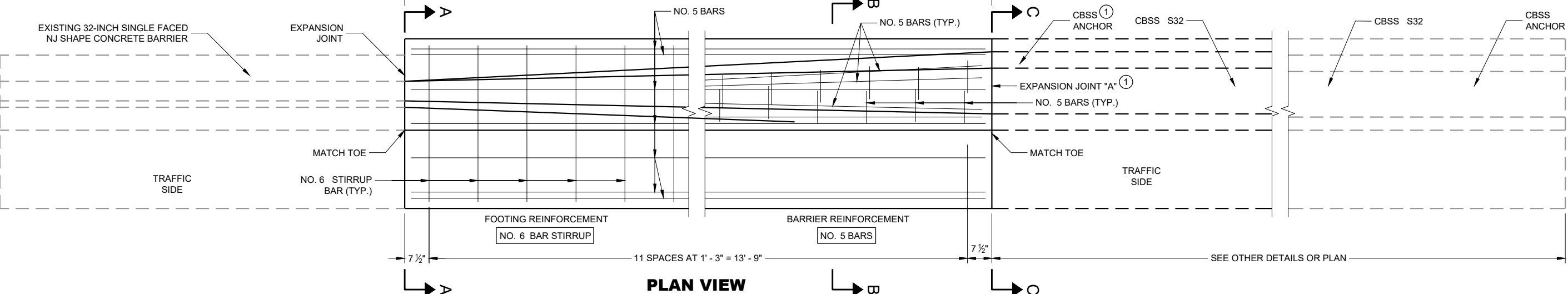
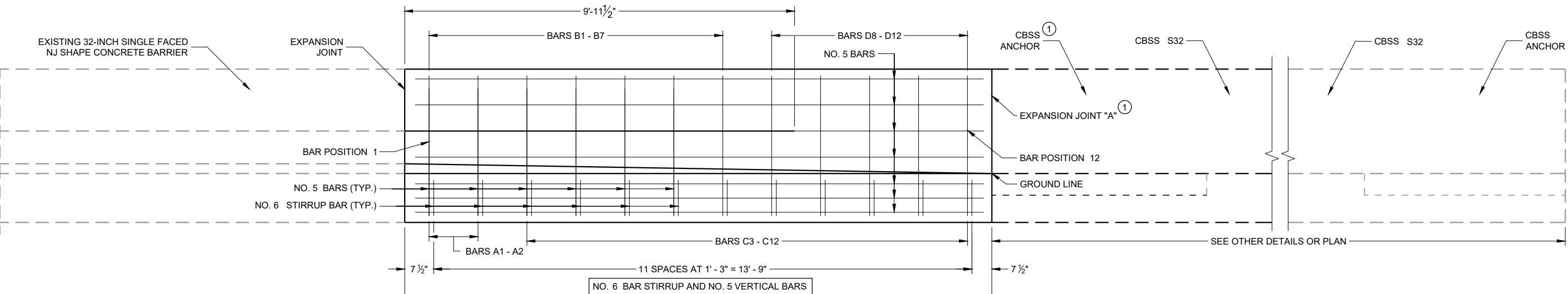




SDD 14B35-a 32-Inch Single Faced NJ Shape Concrete Barrier to 32-Inch Single Slope Concrete Barrier Transition



- GENERAL NOTES**
- CONSTRUCT PER STANDARD SPECIFICATION 603.
 - SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.
 - 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.
 - USE 3/4" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
 - THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.
 - 2" CLEAR COVER TYPICAL.
 - ① EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD JOINT IS USED, ANCHOR IS NOT REQUIRED.

**32 - INCH SINGLE FACED NJ SHAPE
CONCRETE BARRIER TO 32 - INCH SINGLE
SLOPE CONCRETE BARRIER TRANSITION**

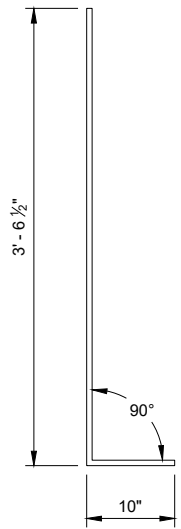
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B35 - 02a

SDD 14B35 - 02a

SDD 14B35-b 32-Inch Single Faced NJ Shape Concrete Barrier to 32-Inch Single Slope Concrete Barrier Transition

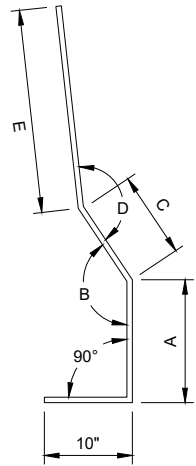
**"A" BAR
POSITIONS 1 - 2**



**"A" BAR
BENDING DETAIL**

**"B" BAR CHART
BAR POSITIONS
1 - 7**

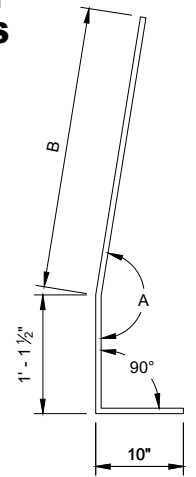
BAR	A	B	C	D	E
B1	1' - 2 1/4"	148°	1' - 1 1/4"	154°	1' - 5"
B2	1' - 2 1/4"	151°	1' - 1"	158°	1' - 5"
B3	1' - 2"	154°	1' - 3/4"	161°	1' - 5 1/4"
B4	1' - 2"	157°	1' - 1/2"	164°	1' - 5 1/4"
B5	1' - 1 1/2"	159°	1' - 1/4"	168°	1' - 5 1/4"
B6	1' - 1 1/2"	162°	1' - 1/4"	173°	1' - 5 1/4"
B7	1' - 1 1/2"	165°	1' - 1/4"	176°	1' - 5 1/4"



**"B" BAR
BENDING DETAIL**

**"C" BAR CHART
BAR POSITIONS
3 - 12**

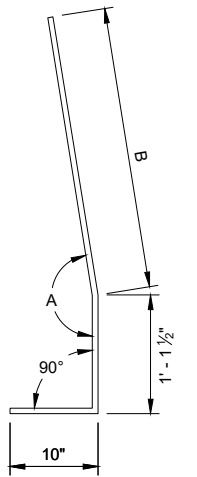
BAR	A
C3	178°
C4	178°
C5	177°
C6	176°
C7	174°
C8	174°
C9	174°
C10	173°
C11	173°
C12	172°



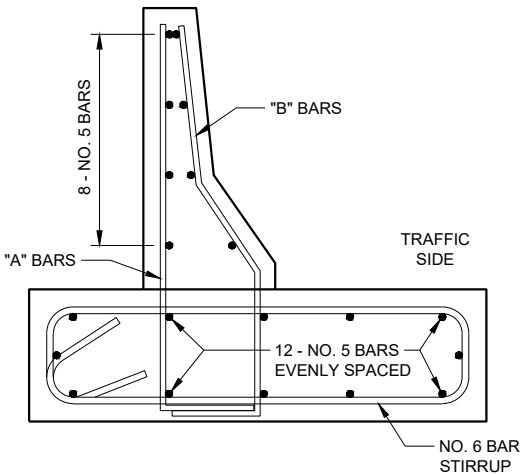
**"C" BAR
BENDING DETAIL**

**"D" BAR CHART
BAR POSITIONS
8 - 12**

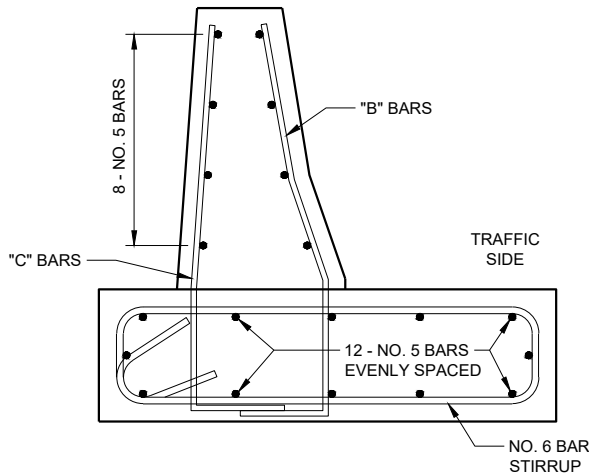
BAR	A
D8	169°
D9	170°
D10	170°
D11	171°
D12	171°



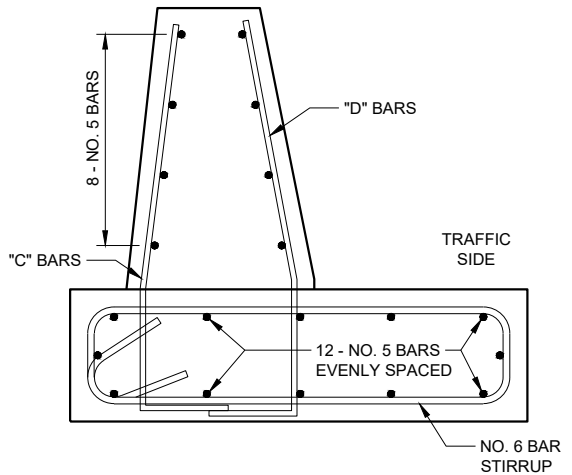
**"D" BAR
BENDING DETAIL**



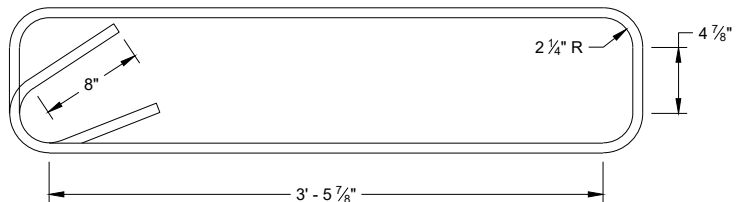
**BAR DETAIL
BAR POSITIONS 1 - 2**



**BAR DETAIL
BAR POSITIONS 3 - 7**



**BAR DETAIL
BAR POSITIONS 8 - 12**



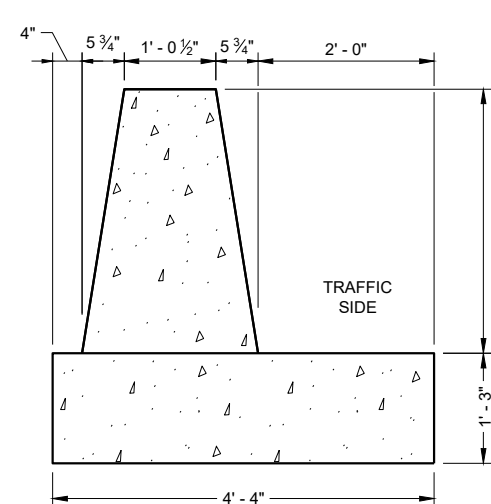
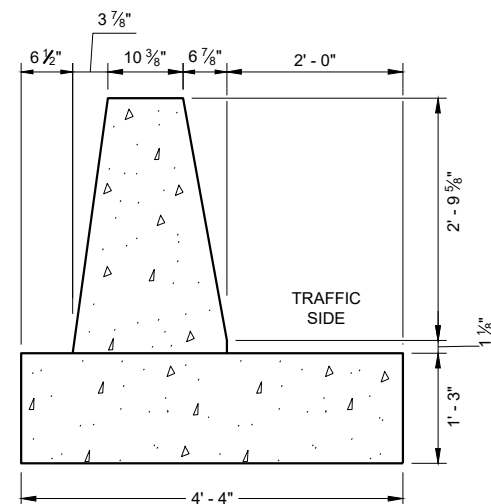
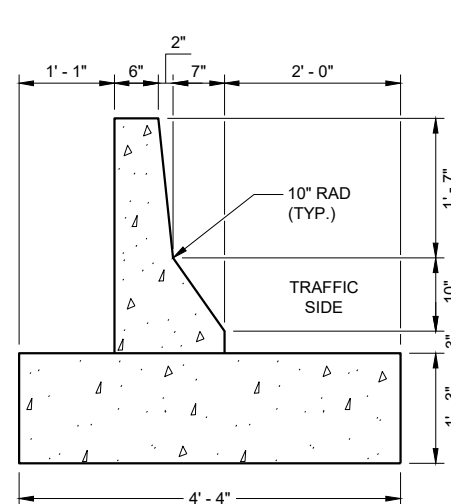
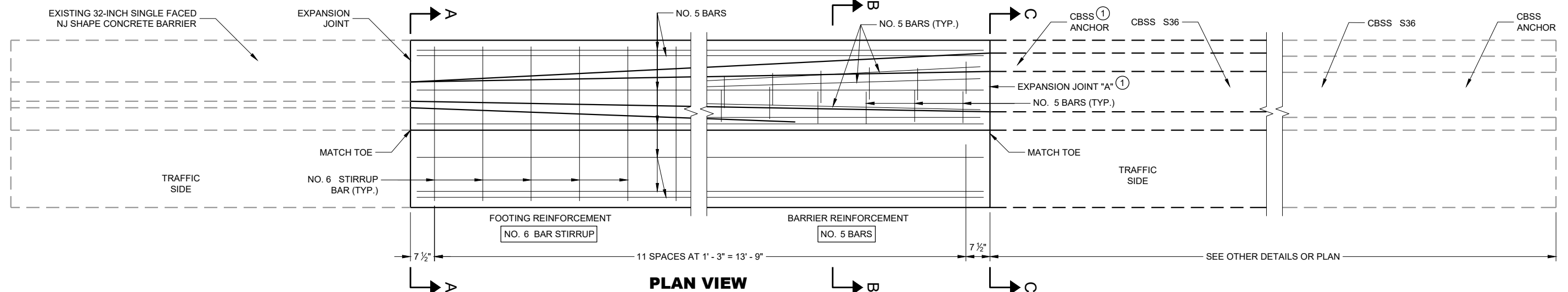
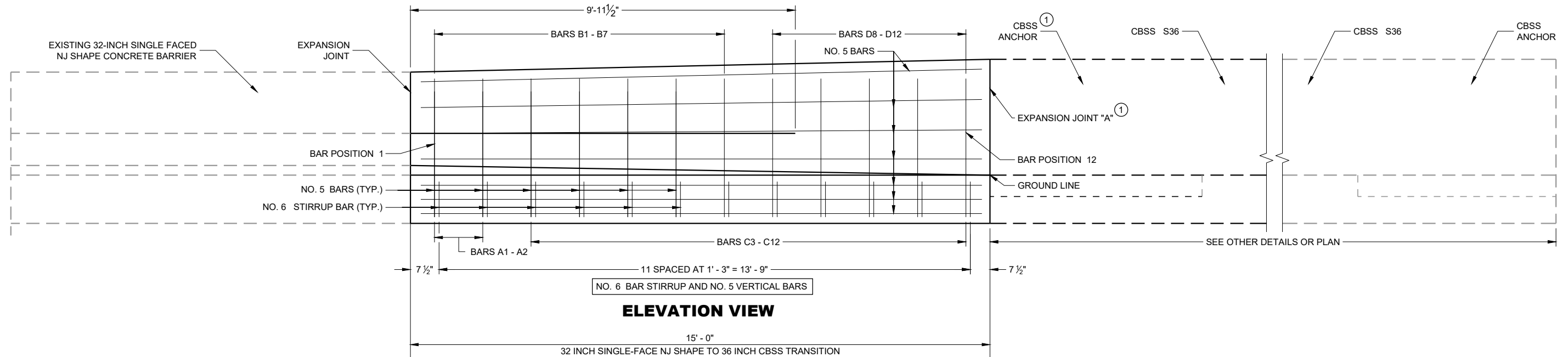
**STIRRUP BAR
BENDING DETAIL**

**32 - INCH SINGLE FACED NJ SHAPE
CONCRETE BARRIER TO 32 - INCH SINGLE
SLOPE CONCRETE BARRIER TRANSITION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER

SDD 14B35-c 32-Inch Single Faced NJ Shape Concrete Barrier to 36-Inch Single Slope Concrete Barrier Transition



GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE 3/4" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

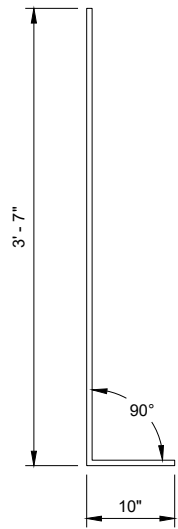
① EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD JOINT IS USED, ANCHOR IS NOT REQUIRED.

**32 - INCH SINGLE FACED NJ SHAPE
CONCRETE BARRER TO 36 - INCH SINGLE
SLOPE CONCRETE BARRIER TRANSITION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B35-d 32-Inch Single Faced NJ Shape Concrete Barrier to 36-Inch Single Slope Concrete Barrier Transition

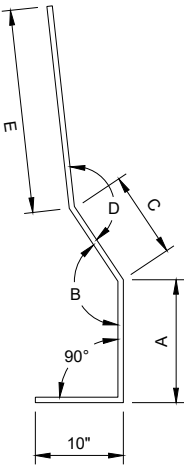
**"A" BAR
POSITIONS 1 - 2**



**"A" BAR
BENDING DETAIL**

**"B" BAR CHART
BAR POSITIONS
1 - 7**

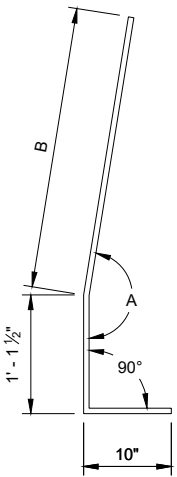
BAR	A	B	C	D	E
B1	1' - 2 1/4"	148°	1' - 1 1/4"	154°	1' - 5 1/2"
B2	1' - 2 1/4"	151°	1' - 1"	158°	1' - 6"
B3	1' - 2"	154°	1' - 3/4"	161°	1' - 6 1/2"
B4	1' - 2"	157°	1' - 1/2"	164°	1' - 7"
B5	1' - 1 1/2"	159°	1' - 1/4"	168°	1' - 8"
B6	1' - 1 1/2"	162°	1' - 1/4"	173°	1' - 8"
B7	1' - 1 1/2"	165°	1' - 1/4"	176°	1' - 8"



**"B" BAR
BENDING DETAIL**

**"C" BAR CHART
BAR POSITIONS
3 - 12**

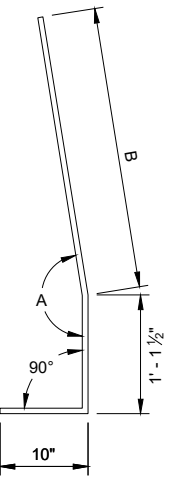
BAR	A	B
C3	178°	2' - 6"
C4	178°	2' - 6 1/2"
C5	177°	2' - 7"
C6	176°	2' - 7 1/2"
C7	174°	2' - 8"
C8	174°	2' - 8"
C9	174°	2' - 8 1/2"
C10	173°	2' - 9"
C11	173°	2' - 9"
C12	172°	2' - 9 1/2"



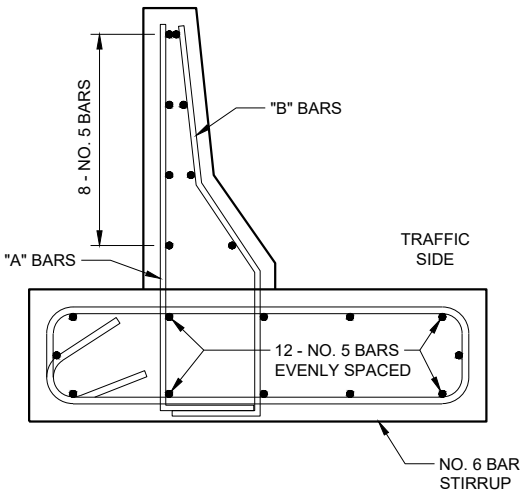
**"C" BAR
BENDING DETAIL**

**"D" BAR CHART
BAR POSITIONS
8 - 12**

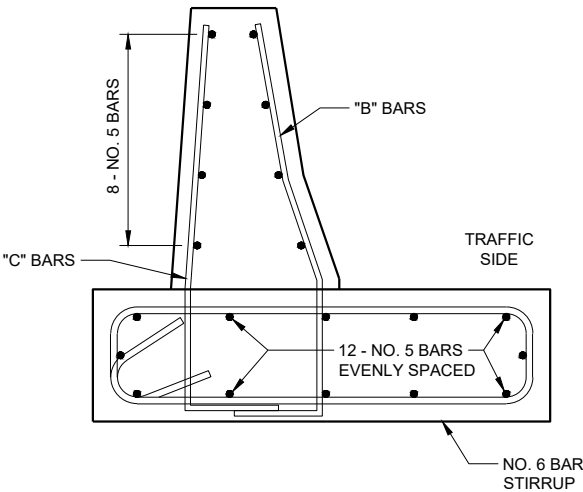
BAR	A	B
D8	169°	2' - 8"
D9	170°	2' - 8 1/2"
D10	170°	2' - 9"
D11	171°	2' - 9"
D12	171°	2' - 9 1/2"



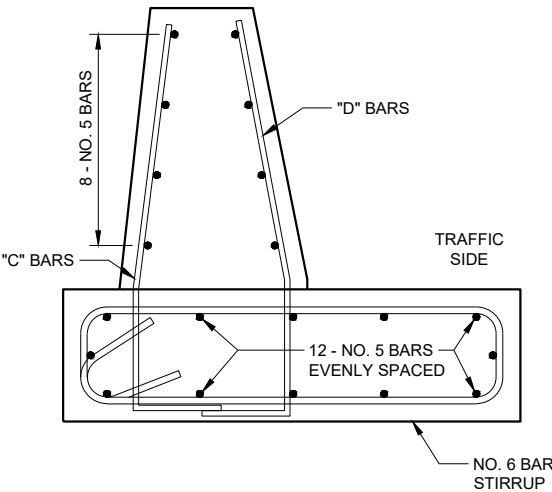
**"D" BAR
BENDING DETAIL**



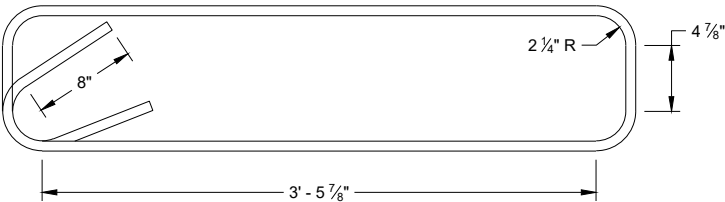
**BAR DETAIL
BAR POSITIONS 1 - 2**



**BAR DETAIL
BAR POSITIONS 3 - 7**



**BAR DETAIL
BAR POSITIONS 8 - 12**



**STIRRUP BAR
BENDING DETAIL**

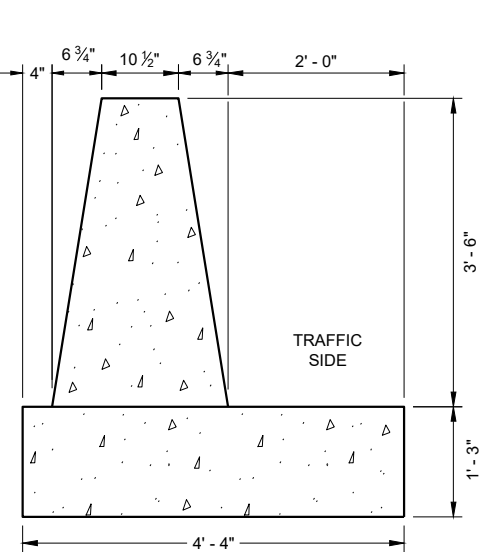
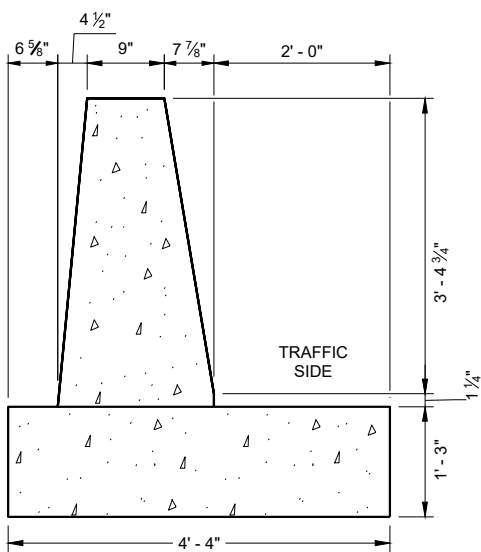
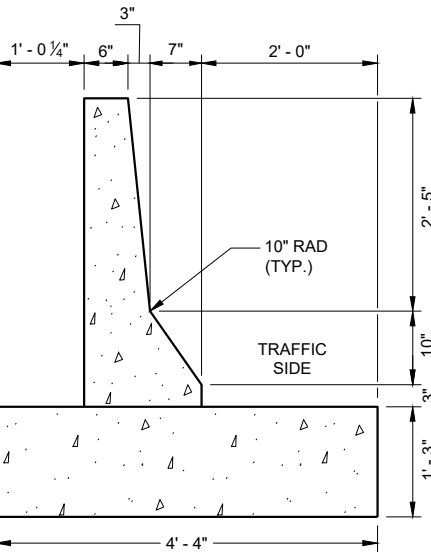
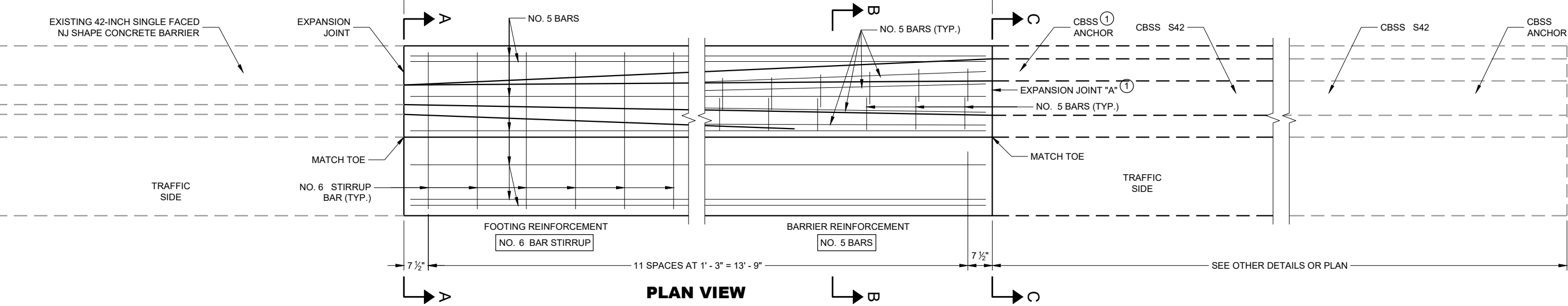
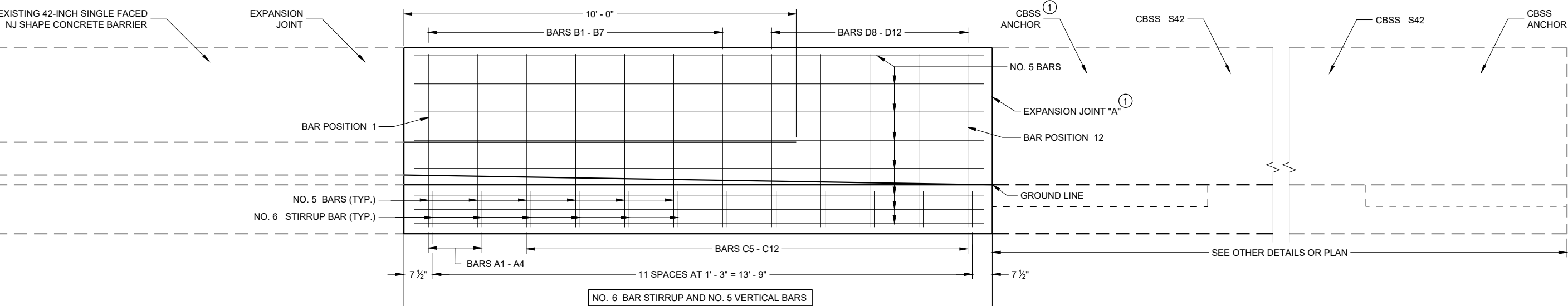
**32 - INCH SINGLE FACED NJ SHAPE
CONCRETE BARRIER TO 36 - INCH SINGLE
SLOPE CONCRETE BARRIER TRANSITION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA



SDD 14B35-e 42-Inch Single Faced F Shape to 42-Inch Single Slope Concrete Barrier Transition - Transition Layout



- GENERAL NOTES**
- CONSTRUCT PER STANDARD SPECIFICATION 603.
 - SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.
 - 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.
 - USE 3/4" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
 - THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.
 - 2" CLEAR COVER TYPICAL.
 - ① EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD JOINT IS USED, ANCHOR IS NOT REQUIRED.

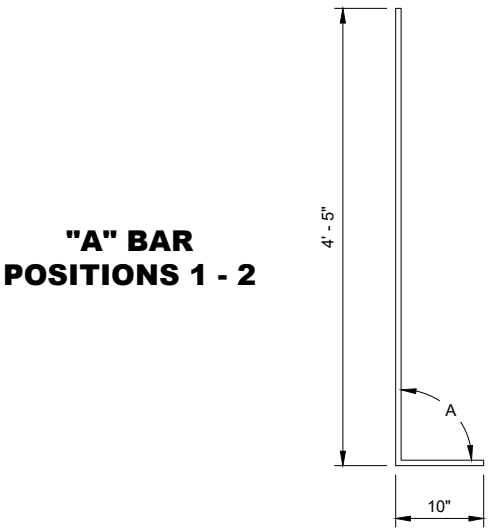
**42 - INCH SINGLE FACED F SHAPE
CONCRETE BARRIER TO 42 - INCH SINGLE
SLOPE CONCRETE BARRIER TRANSITION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

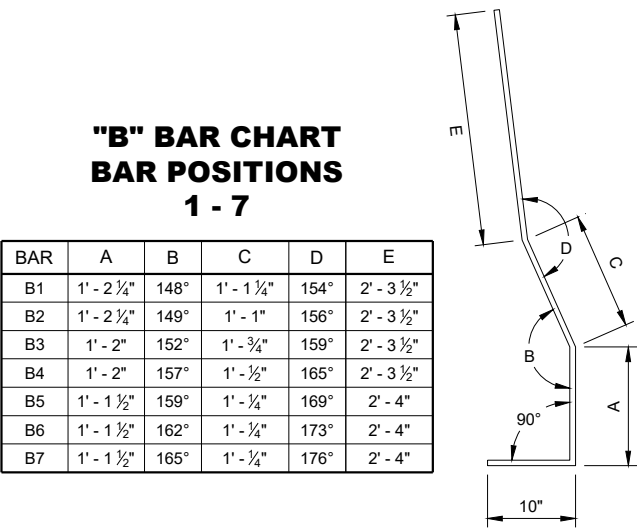
SDD 14B35 - 02e

SDD 14B35 - 02e

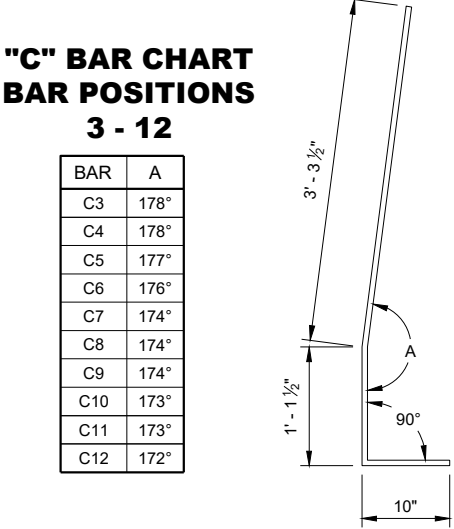
SDD 14B35-f 42-Inch Single Faced NJ Shape to 42-Inch Single Slope Concrete Barrier Transition - Steel Layout



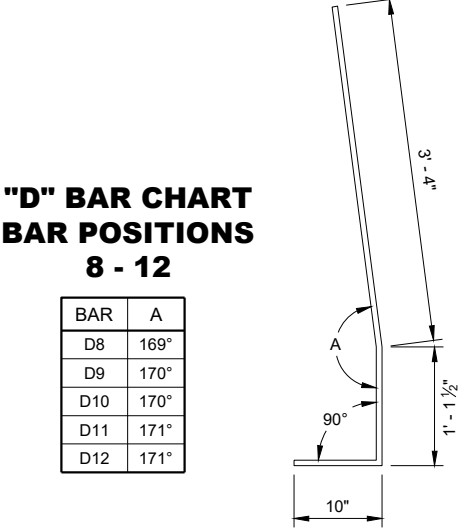
**"A" BAR
BENDING DETAIL**



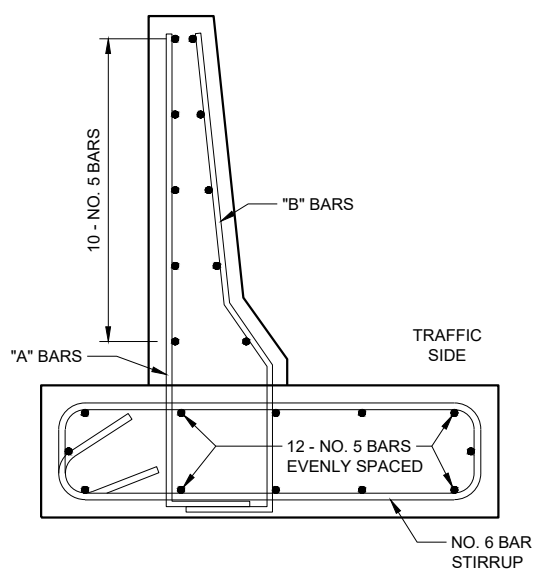
**"B" BAR
BENDING DETAIL**



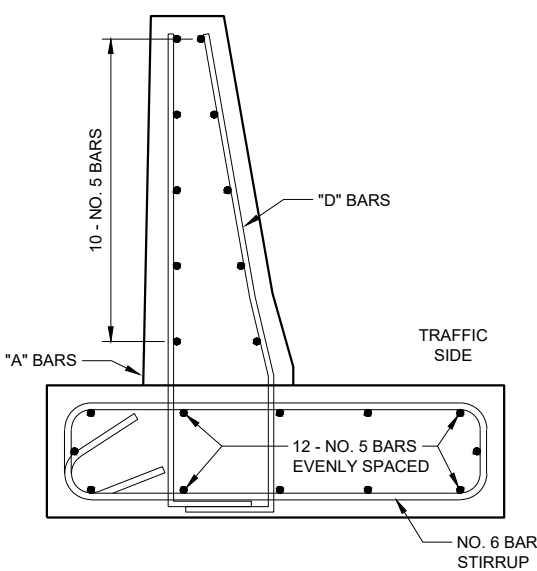
**"C" BAR
BENDING DETAIL**



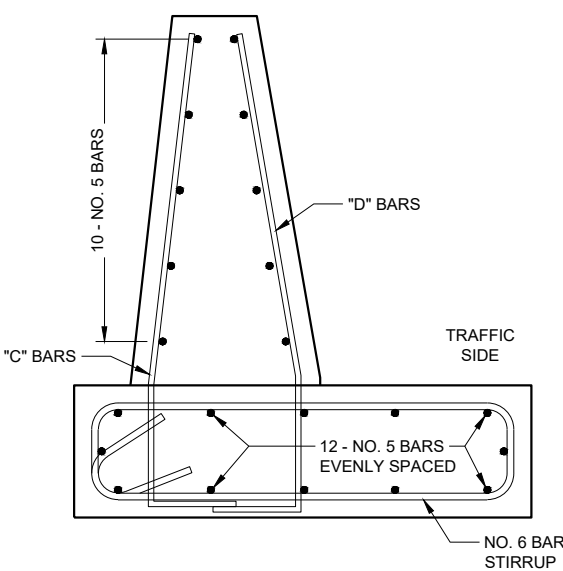
**"D" BAR
BENDING DETAIL**



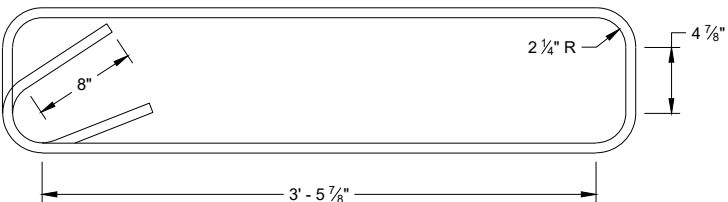
**BAR DETAIL
BAR POSITIONS 1 - 4**



**BAR DETAIL
BAR POSITION 5 - 7**



**BAR DETAIL
BAR POSITIONS 8 - 12**



**STIRRUP BAR
BENDING DETAIL**

**42 - INCH SINGLE FACED NJ SHAPE
CONCRETE BARRIER TO 42 - INCH SINGLE
SLOPE CONCRETE BARRIER TRANSITION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

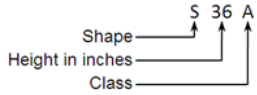
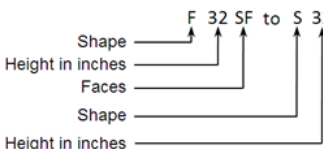
APPROVED
February 2020 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

Single-Faced NJ Shape Concrete Barrier to Single Slope Concrete Barrier Transitions**References:**

NONE

Bid items associated with this drawing:

Bid items for single slope barrier and associated transitions are encoded as follows:

BARRIER BID ITEM TYPES		DESCRIPTION		CODE
 <p><i>example: Concrete Barrier Type S36A is a 36" single sloped median retaining wall barrier</i></p>		SHAPE	New Jersey shape	NJ
			F shape	F
			Vertical	V
			Single slope barrier	S
TRANSITION BID ITEM TYPES		CLASS	Standard barrier section	none
 <p><i>example: Concrete Barrier Transition Type F32SF to S32 is a transition from 32" single faced F barrier to a 32" single sloped barrier</i></p>			Median retaining wall	A
			Short barrier section	B
			Roadside retaining wall	C
		FACES	Double faced barrier	DF
			Single faced barrier	SF

ITEM NUMBER	DESCRIPTION	UNIT
204.0157	Removing Concrete Barrier	LF
603.1332	Concrete Barrier Type S32B	LF
603.1336	Concrete Barrier Type S36B	LF
603.1342	Concrete Barrier Type S42B	LF
603.1356	Concrete Barrier Type S56B	LF
614.0200	Steel Thrie Beam Structure Approach	LF
614.0700	Sand Barrel Arrays.....	EACH
614.0800	Crash Cushions Permanent	EACH
614.0805	Crash Cushions Permanent Low Maintenance	EACH
614.0905	Crash Cushions Temporary.....	EACH
633.0500	Delineator Reflectors.....	EACH
633.1000	Delineators Barrier Wall	EACH
690.0150	Sawing Asphalt	LF
690.0250	Sawing Concrete.....	LF

Standardized Special Provisions associated with this drawing:STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 14B20	Steel Thrie Beam Structure Approach
SDD 14B33	Concrete Barrier Single Slope Thrie Beam Anchorage
SDD 15A4	Delineator and Delineator Post

Design Notes:

Barrier is not structural protection for bridge substructure.

Contact Person:

Erik Emerson (608) 266-2842